

IN THE CLAIM

Please cancel Claims 1 to 44, without prejudice or disclaimer of the subject matter thereof, and add new claims 45. The added new claim 5 is based on the original claims 1, 2, 3, 5 and 12 to 15. No new matter is added. The relation of the new claims with respect to the original claims are shown in the following REMARK, Examiners can read the claims more easily from the REMARK.

LIST OF CLAIMS:

Claims 1 to 44 (Cancelled)

Claim 45 (New) A light emitting device of backlight module of liquid crystal display,

said LCD backlight module emitting light beams, to predetermined angle range, and pointing to a predetermined orientation, including:

a plurality of lower prisms; each comprising an emitting face, making light beams propagating in an angle range inside a light guiding plate transmitting through the emitting face of the lower prisms;

a light guiding plate, engaged with the a plurality of lower prisms to be as an integral unit;

a plurality of upper prism, each comprising an entering face and an total reflecting face, making light beams transmitting into the its entering face being be reflected totally from the total reflecting face and transmit through an upper prism plate in predetermined orientations;

an upper prism plate, engaged with a plurality of upper prisms to be as into an integral unit;

wherein light beam propagating in the predetermined angle range inside LGP is refracted by a corresponding one of said lower prism and transmits through said emitting face of the corresponding lower prism, and the passes

through an air gap; said light beam is incident on, refracted by and transmit into said entering face of a corresponding upper prism; said light beam propagates inside said upper prism and onto said total reflecting face, and then said light beam is totally reflected from said total reflecting face, and further said totally reflected light beam transmits through said upper prism plate, limited to said predetermined angle range, pointing to said predetermined orientations, being able to be looked as if that is emitted from corresponding specified positions of LGP;

wherein a cross section of said lower prism is quasi-triangle;

wherein a cross section of said upper prism is quasi-triangle;

wherein the cross section of said upper prism is quasi-triangle, and said totally reflected light beams transmitting through said upper prism plate can be looked as if those were emitted from nearby of border of corresponding lower prisms of LGP;

wherein range of opposite angle ω of lower prism's emitting face is:

$$0 < \omega \leq 0.5 \theta_c;$$

θ_c is critical angle of lower prism's material;

wherein range of angle α formed by emitting face and bottom side of lower prism is:

$$0 < \alpha \leq 90^\circ.$$

wherein range of vertex angle θ of upper prism's quasi-triangle, which is near LGP, is:

$$90^\circ - \theta_c \leq \theta \leq 180^\circ - \alpha - \omega;$$

θ_c is critical angle of lower prism's material; α is angle formed by emitting face and bottom side of lower prism, and ω is opposite angle of lower prism's emitting face;

wherein range of curvature radius of upper prism's entering face r_1 is:

$$T < r_1 \leq \infty, \text{ and}$$

range of curvature radius of upper prism's total reflecting face is:

$T < r_2 \leq \infty$; and

said T is the shortest distance between LCD substrate and intersecting point of entering face of upper prism and total reflecting face of upper prism.